

# TECHNO ABS 410

Acrylonitrile Butadiene Styrene

Techno Polymer Co, Ltd.

## Message:

TECHNO ABS 410 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in Asia Pacific or North America.

Characteristics include:

Flame Rated

Chemical Resistant

| General Information                       |                          |                   |                      |
|-------------------------------------------|--------------------------|-------------------|----------------------|
| Features                                  | Good Chemical Resistance |                   |                      |
| UL File Number                            | E54297                   |                   |                      |
| Processing Method                         | Injection Molding        |                   |                      |
| Physical                                  | Nominal Value            | Unit              | Test Method          |
| Density                                   | 1.06                     | g/cm <sup>3</sup> | ISO 1183, ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 14                       | g/10 min          | ISO 1133             |
| Molding Shrinkage                         | 0.40 to 0.60             | %                 | ISO 294-4            |
| Hardness                                  | Nominal Value            | Unit              | Test Method          |
| Rockwell Hardness                         |                          |                   |                      |
| R-Scale                                   | 112                      |                   | ASTM D785            |
| R-Scale                                   | 92                       |                   | ISO 2039-2           |
| Mechanical                                | Nominal Value            | Unit              | Test Method          |
| Tensile Strength                          |                          |                   |                      |
| Yield                                     | 52.0                     | MPa               | ASTM D638            |
| Yield                                     | 38.0                     | MPa               | ISO 527-2            |
| Flexural Modulus                          |                          |                   |                      |
| --                                        | 2350                     | MPa               | ASTM D790            |
| --                                        | 1670                     | MPa               | ISO 178              |
| Flexural Strength                         |                          |                   |                      |
| --                                        | 82.4                     | MPa               | ASTM D790            |
| --                                        | 56.0                     | MPa               | ISO 178              |
| Impact                                    | Nominal Value            | Unit              | Test Method          |
| Charpy Notched Impact Strength            | 12                       | kJ/m <sup>2</sup> | ISO 179              |
| Notched Izod Impact                       | 190                      | J/m               | ASTM D256            |
| Thermal                                   | Nominal Value            | Unit              | Test Method          |
| Deflection Temperature Under Load         |                          |                   |                      |
| 0.45 MPa, Unannealed                      | 92.0                     | °C                | ASTM D648            |
| 0.45 MPa, Unannealed                      | 73.0                     | °C                | ISO 75-2/B           |
| Flammability                              | Nominal Value            |                   | Test Method          |
| Flame Rating (ALL)                        | HB                       |                   | UL 94                |

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 80.0 to 90.0  | °C   |
| Drying Time        | 2.0 to 5.0    | hr   |
| Rear Temperature   | 190 to 260    | °C   |
| Middle Temperature | 190 to 260    | °C   |
| Front Temperature  | 190 to 260    | °C   |
| Mold Temperature   | 40.0 to 80.0  | °C   |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

